

## CLAIMS

What is claimed is:

1. A method for treating a blood disorder; treating sickle cell anemia; or treating thalassemia in a patient in need thereof comprising administering a therapeutically effective amount of at least one nitric oxide donor compound.
2. The method of claim 1, further comprising administering a therapeutically effective amount of at least one antioxidant and/or at least one therapeutic agent.
3. The method of claim 1, wherein the nitric oxide donor compound is N-hydroxy-L-arginine, isosorbide dinitrate, isosorbide mononitrate or a mixture of two or more thereof.
4. The method of claim 2, wherein the antioxidant is a hydralazine compound or a pharmaceutically acceptable salt thereof.
5. The method of claim 4, wherein the hydralazine compound is hydralazine hydrochloride.
6. A method for treating pulmonary hypertension in a patient with sickle cell anemia comprising administering a therapeutically effective amount of at least one nitric oxide donor compound.
7. The method of claim 6, further comprising administering a therapeutically effective amount of at least one antioxidant and/or at least one therapeutic agent.
8. The method of claim 6, wherein the nitric oxide donor compound is N-hydroxy-L-arginine, isosorbide dinitrate, isosorbide mononitrate or a mixture of two or more thereof.
9. The method of claim 7, wherein the antioxidant is a hydralazine compound or a pharmaceutically acceptable salt thereof.
10. The method of claim 9, wherein the hydralazine compound is hydralazine hydrochloride.
11. A method for treating pulmonary hypertension in a patient with thalassemia comprising administering a therapeutically effective amount of at least one nitric oxide donor compound.
12. The method of claim 11, further comprising administering a

therapeutically effective amount of at least one antioxidant and/or at least one therapeutic agent.

13. The method of claim 11, wherein the nitric oxide donor compound is N-hydroxy-L-arginine, isosorbide dinitrate, isosorbide mononitrate or a mixture of two or more thereof.

14. The method of claim 12, wherein the antioxidant is a hydralazine compound or a pharmaceutically acceptable salt thereof.

15. The method of claim 14, wherein the hydralazine compound is hydralazine hydrochloride.

16. A method for treating systemic systolic hypertension, oxidative stress and/or endothelial dysfunction in patient with sickle cell anemia and/or thalassemia by administering a therapeutically effective amount of at least one nitric oxide donor compound.

17. The method of claim 16, further comprising administering a therapeutically effective amount of at least one antioxidant and/or at least one therapeutic agent.

18. The method of claim 16, wherein the nitric oxide donor compound is N-hydroxy-L-arginine, isosorbide dinitrate, isosorbide mononitrate or a mixture of two or more thereof.

19. The method of claim 17, wherein the antioxidant is a hydralazine compound or a pharmaceutically acceptable salt thereof.

20. The method of claim 19, wherein the hydralazine compound is hydralazine hydrochloride.